

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in this application:

Listing of Claims:

Claim 1 (Cancelled)

Claim 2 (Currently amended): The elastomer according to Claim 4-7 wherein said homopolymer of butadiene is dihydroxyl terminated polybutadiene.

Claim 3 (Currently amended): The elastomer according to Claim 4-7, wherein the OH terminated homopolymer of butadiene is represented by the formula:



wherein n is a number average value from about 8 to 36.

Claims 4-6 (Cancelled).

Claim 7 (Currently amended): A light stable hydrophobic polyurethane elastomer comprising the reaction product of:

- A) an isocyanate terminated prepolymer having an isocyanate content ranging from 4 to 12 wt.% NCO comprising the reaction product of:
 - i) an OH terminated homopolymer of butadiene having a molecular weight ranging from 1000 to 4000 and an OH functionality of from 1.9 to 2.1, prepared in the presence of bis(tricyclohexylphosphine) benzylidene-ruthenium dichloride catalyst; and
 - ii) The elastomer according to Claim 6, wherein said 4,4' - dicyclohexyl-methanediisocyanate contains containing about 23% by weight *trans,trans*, 49% by weight *cis,trans*, and 28% by weight *cis,cis* isomer;
- B) at least one symmetric diol or diamine chain extender having a molecular weight ranging from 62 to 400.

Claim 8 (Currently amended): The elastomer according to Claim 4₇, wherein said at least one symmetric diol or diamine chain extender is selected from the group consisting of 1,6-hexane-diol, 1,8-octanediol, 2-methyl-1,3-propanediol, ethylene glycol, diethylene glycol, dipropylene glycol, 1,4-butanediol, terephthalic acid bis(ethylene glycol), terephthalic acid bis(1,4-butanediol), 1,4-di(hydroxyethyl) hydroquinone, ethylenediamine, 1,3-propylenediamine, N-methylpropylene-1,3-diamine, N,N'-dimethyl ethylenediamine, 2,6-tolylenediamine and 3,5-diethyl-2,6-tolylenediamine.

Claim 9 (Currently amended): The elastomer according to Claim 8, wherein said at least one symmetric diol or diamine chain extender comprises is 1,4-butanediol.

Claim 10 (Currently amended): The elastomer according to Claim 4₇, wherein the OH terminated homopolymer of butadiene has an OH functionality ranging from 1.95 to 2.0.

Claim 11 (Cancelled).

Claim 12 (Currently amended): A light stable hydrophobic polyurethane elastomer comprising the reaction product of:

- A) an isocyanate terminated prepolymer having an isocyanate content ranging from 4 to 12 wt.% NCO comprising the reaction product of
 - i) an OH terminated homopolymer of butadiene having a molecular weight ranging from 1000 to 4000 and an OH functionality of from 1.9 to 2.1, prepared in the presence of bis(tricyclohexylphosphine) benzylidene-ruthenium dichloride catalyst, and
 - ii) 4,4' - dicyclohexyl-methanediisocyanate containing about 23% by weight trans,trans, 49% by weight cis,trans, and 28% by weight cis,cis isomer at least one aliphatic or cycloaliphatic diisocyanate; and

B) 1,4-butanediol.

Claim 13 (Currently amended): A process for preparing a light stable hydrophobic polyurethane elastomer comprising:

- A) forming a polyurethane reactive mixture by reacting
 - i) an isocyanate terminated prepolymer having an isocyanate content ranging from 4 to 12 wt.% NCO comprising the reaction product of:
 - a) an OH terminated homopolymer of butadiene having a molecular weight ranging from 1000 to 4000 and an OH functionality of from 1.9 to 2.1, prepared in the presence of bis(tricyclohexylphosphine) benzylidene-ruthenium dichloride catalyst, and
 - b) 4,4' - dicyclohexyl-methanediisocyanate about 23% by weight trans,trans, 49% by weight cis,trans, and 28% by weight cis,cis isomer at least one aliphatic or cycloaliphatic diisocyanate;
 - with
 - ii) at least one symmetric diol or diamine chain extender having a molecular weight ranging from 62 to 400;
- and
- B) curing the reactive mixture in a mold.

Claim 14 (Currently amended): A process for preparing a light stable hydrophobic polyurethane elastomer comprising:

- A) forming a polyurethane reactive mixture by reacting:
 - i) an isocyanate terminated prepolymer having an isocyanate content ranging from 4 to 12 wt.% NCO comprising the reaction product of
 - a) an OH terminated homopolymer of butadiene having a molecular weight ranging from 1000 to 4000 and an OH functionality of from 1.9 to 2.1, prepared in the presence

of bis(tricyclohexylphosphine) benzylidene-ruthenium dichloride catalyst, and

- b) 4,4' - dicyclohexyl-methanediisocyanate containing about 23% by weight trans,trans, 49% by weight cis,trans, and 28% by weight cis,cis isomer at least one aliphatic or cycloaliphatic diisocyanate;

with

- ii) 1,4-butanediol;

and

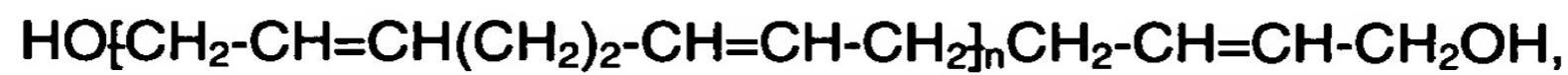
- B) curing the reactive mixture in a mold.

Claim 15 (Currently amended): A light stable hydrophobic polyurethane elastomer comprising the reaction product of:

- A) an isocyanate terminated prepolymer having an isocyanate content ranging from 4 to 12 wt.% NCO comprising the reaction product of:
- i) an OH terminated homopolymer of butadiene having a molecular weight ranging from 1000 to 4000 and an OH functionality of from 1.9 to 2.1, prepared in the presence of bis(tricyclohexylphosphine) benzylidene-ruthenium dichloride catalyst; and
- ii) 4,4' - dicyclohexyl-methanediisocyanate containing about 23% by weight trans,trans, 49% by weight cis,trans, and 28% by weight cis,cis isomer at least one aliphatic or cycloaliphatic diisocyanate; and
- B) at least one chain extender chosen from 1,6-hexane-diol, 1,8-octanediol, 2-methyl-1,3-propanediol, ethylene glycol, diethylene glycol, dipropylene glycol, 1,4-butanediol, terephthalic acid bis(ethylene glycol), terephthalic acid bis(1,4-butanediol), 1,4-di(hydroxyethyl)hydroquinone, ethylenediamine, 1,3-propylenediamine, N-methylpropylene-1,3-diamine, N,N'-dimethyl ethylenediamine, 2,6-tolylenediamine and or 3,5-diethyl-2,6-tolylenediamine.

Claim 16 (Previously presented): The elastomer according to Claim 15, wherein said homopolymer of butadiene is dihydroxyl terminated polybutadiene.

Claim 17 (Previously presented): The elastomer according to Claim 15, wherein the OH terminated homopolymer of butadiene is represented by the formula:



wherein n is a number average value from about 8 to 36.

Claims 18-22 (Cancelled).